Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

Claims 1 – 20 (cancelled)

21. (new) A computer-readable medium comprising program instructions for performing the steps of:

linking a first semantic unit to a second semantic unit using a first linking unit, wherein the first semantic unit, the second semantic unit and the first linking unit are parts of a semantic network machine, wherein the first semantic unit contains informational content, and wherein the first semantic unit has a state that varies with time;

carrying out computational operations on the first semantic unit, the second semantic unit and the first linking unit, wherein the computational operations depend on the state of the first semantic unit;

adding a third semantic unit to the semantic network machine;

adding a second linking unit to the semantic network machine;

changing the informational content of the first semantic unit; and

changing the first linking unit to link the first semantic unit to the third semantic unit.

22. (new) The computer-readable medium of claim 21, wherein the informational content is a pattern of a traffic network and wherein the steps perform pattern recognition of the traffic network.

23. (new) The computer-readable medium of claim 21, wherein the steps are used in the automatic piloting of vehicles.

24. (new) The computer-readable medium of claim 21, wherein the steps are used to recognize a pattern of a traffic network and to convert a digital image of the traffic network into a road map.

25. (new) The computer-readable medium of claim 21, further comprising:

searching for unusual changes in the informational content.

26. (new) The computer-readable medium of claim 21, further comprising:

deleting the second semantic unit; and

deleting the first linking unit.